

02 A system of the first type is described, for example in DE 19 05 517, DE 25 40 257, and DE 40 39 960 A1. In the case of said system, the reaction medium is circulated by pumping via an external circulation and first aspirates the gaseous chlorine by means of a liquid-jet gas compressor. Gaseous ethylene is subsequently fed in via a perforated gas distributor. The mixed stream so produced then flows through a packing of fillers or a static mixer, where the relatively large ethylene bubbles produced by the gas distributor are dispersed, so that the ethylene dissolves at an adequate rate and reacts with the already dissolved chlorine.

A marked-up copy of the specification is shown as Exhibit A.

IN THE CLAIMS

Please cancel claims 1-20 and replace with new claims 21-40 as follows:

03 --21. A method of producing 1,2-dichloroethane or ethylene (di)chloride (EDC) using a circulating reaction medium and a catalyst, whereby ethylene and chlorine are supplied to the reaction medium, characterized in that the ethylene or chlorine gas are introduced into the reaction medium by means of